

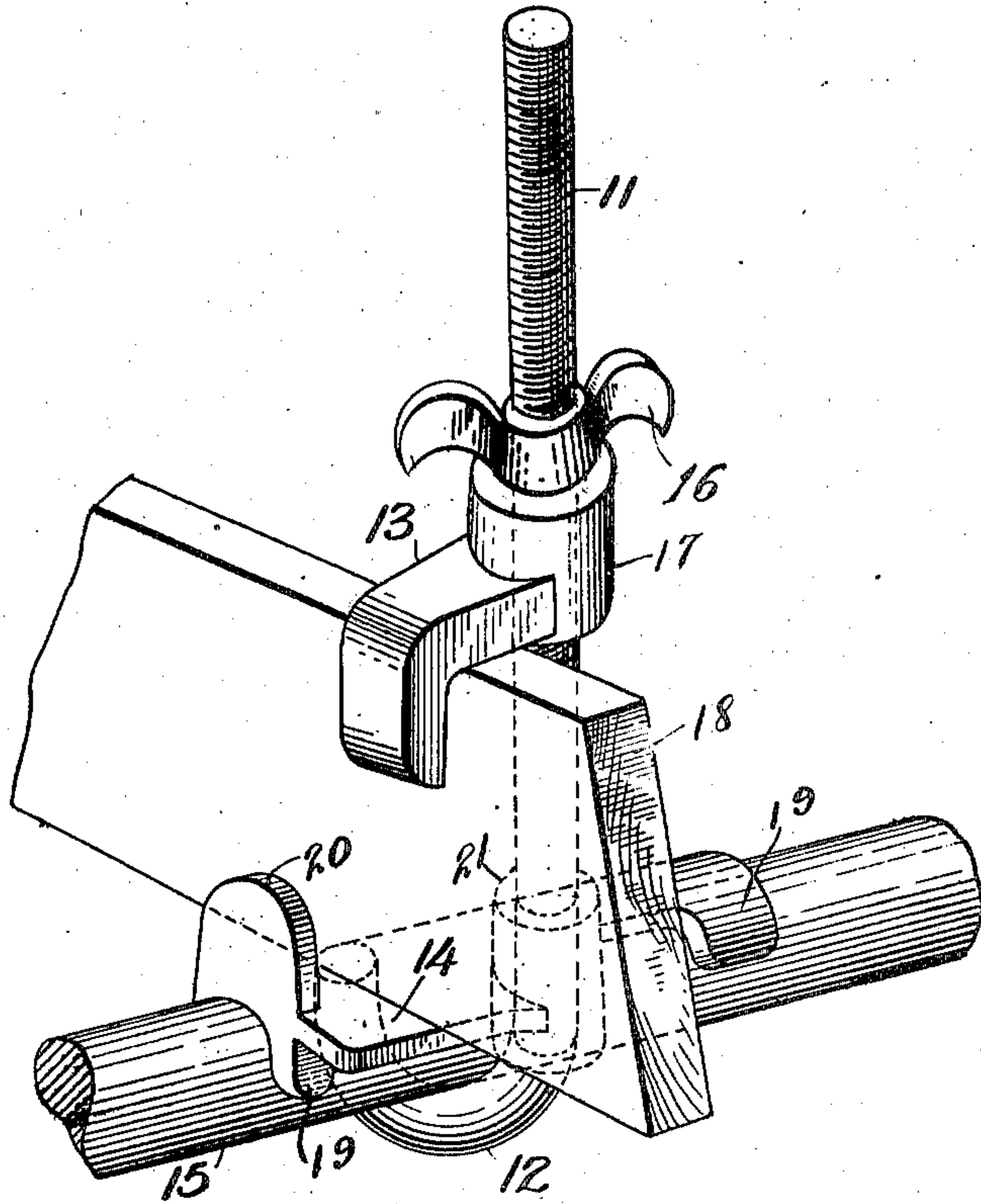
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CLAMP.

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947,811.

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UNITED STATES PATENT OFFICE.

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CLAMP.

947,811.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WRIGHT L. GLIDDEN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Clamps, of which the following is a specification.

This invention relates to clamps, the object of the invention being to provide a clamp especially adapted for fastening together ladders or ladder sections, braces, beams, uprights and other elements of a scaffold for the purpose of enabling a strong, safe and thoroughly braced structure to be quickly erected or set up and taken down, the clamp also embodying means whereby the several parts or members thereof are maintained in the proper working alinement and relation to each other while adjusting the clamp, as a whole, to the structure in connection with which it is to be used.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

The accompanying drawing represents a perspective view of a complete clamp embodying the present invention, showing the same applied to a round object such as a ladder rung and a beam of rectangular shape in cross section.

The clamp contemplated in this invention comprises essentially a hook-shaped jaw 12 having a threaded shank 11, the exact shape of the hook-shaped jaw 12 being immaterial as long as it is so shaped as to adapt it to embrace a portion of a ladder or beam or upright, as the case may be. Mounted on the threaded shank 12 is another hook-shaped jaw 13 which is provided with a hub or sleeve portion 17, said hub extending considerably to one side of the body of the jaw 13 to form a bearing of considerable length through which the shank 11 passes, the hub 17 preventing the hook-shaped jaw 13 from dipping or canting or binding on the shank 11.

16 designates a clamp nut which backs up the hook-shaped jaw 13 and bears against the projecting hub 17 thereof.

Located between the two hook-shaped jaws hereinabove described is an interme-

mediate double jaw or friction plate 14 adapted to be interposed between the two objects 15 and 18 to be held by the clamp. This intermediate double jaw or friction plate may be provided with suitable positioning lugs 19 and 20 to bear against the adjacent faces of the objects 15 and 18, if desired, so as to properly position said parts relatively to the clamp and to each other, this, however, being immaterial. An essential feature of the intermediate double jaw or friction plate resides in the hub portion 21 of said plate, said portion being formed integrally with the plate 14 and projecting a substantial distance from one face and adjacent to one edge of said plate to form a long bearing for the plate on the shank, the said hub portion being adapted to be slid along the shank 11 to any point which will permit the plate 14 to lie between and in clamped contact with the two objects simultaneously held by the clamp, as a whole.

After the clamp has been associated with the two objects to be held together thereby, the nut 16 is screwed down tightly against the hub 17 of the jaw 13, thereby firmly securing each and all of the jaws of the clamp in engagement with the objects held thereby. It will be observed that by reason of the shape of the hook-shaped jaws and the intermediate jaw or plate, the objects to be clamped are capable of lateral introduction to and removal from the clamp elements of the device which greatly facilitates the work of setting up and taking down a structure, such as a scaffold.

I claim:—

A scaffold clamp comprising a hook-shaped jaw having a threaded shank, a second hook-shaped jaw having a substantial hub portion slidable on said shank, a nut on the shank to bear against the last-named jaw, and an intermediate double jaw or friction plate located between the two hook-shaped jaws and having a hub portion at one side edge and projecting a substantial distance from one face of the plate and slidable on the shank.

In testimony whereof I affix my signature in presence of two witnesses.

WRIGHT L. GLIDDEN.

Witnesses:

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